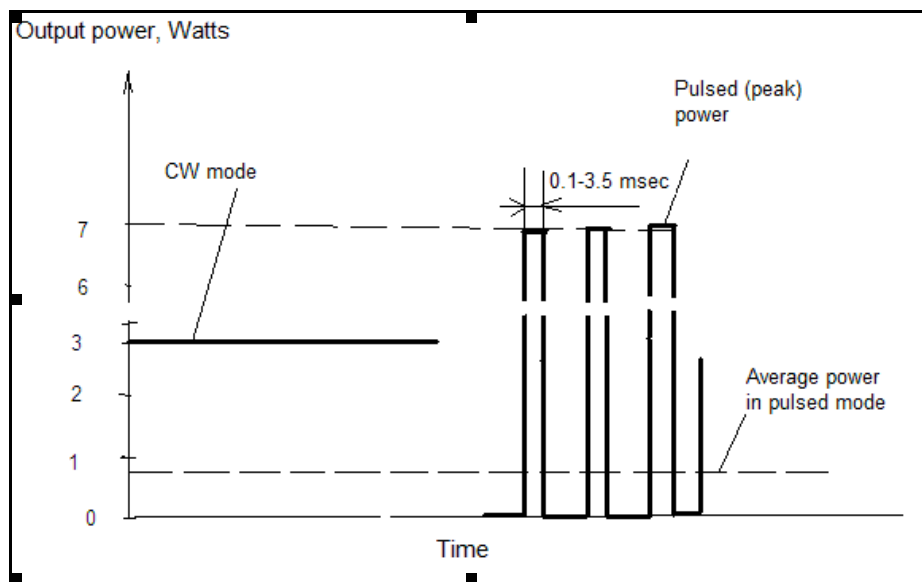


Standard 1/2 on 1/2 off pulses, 50% duty cycle

Standard lasers with 10-25 hz, 10-25 pulses per second with 50% duty cycle, produce long pulses and long intervals. The target tissue receives 1/2 the power and low powered lasers of 2-3 Watts simply cannot cut heavily fibrous tissue. These lasers do not deliver an adequate energy burst for essential bacteriocidal action. CW is the preferred mode. Although CW does not allow for thermal relaxation of the tissue. Patient comfort and tissue charring may be an issue during the procedure and postoperatively.



Spectralase Elite "Elite Pulse"

Pulses are delivered at 6-7 Watts for 10 millionths of a second at a repetition rate of 200 pulses per second (hz) with a self adjusting interval between pulses paired to the wattage. The power delivered is an average of the pulses. Studies prove that short pulses carrying higher power result in an optimal bacteriocidal effect.

Our goal is to optimize energy deposition with appropriate pulse intervals in order to achieve maximum coagulation and disinfection while maintaining the proper tissue cooling cycle.